

A dashboard gathering important information

What is your role in the project?

We will design a dashboard that allows the project partners (clinical and technical professionals) to have an overview of the patients involved in the project. The dashboard will inform professionals about the patients' health evolution and even predict how they can potentially evolve in the future.

How do you plan to do that?

The idea is to develop a dashboard that can be used both by technical professionals and also clinical professionals, so that doctors themselves can explore the characteristics of the patients that determine one evolution or another, according to those characteristics. For this, preliminary health data will be entered in the system from the hospitals of patients similar to those included in this project and will be used to predict what will happen to those analysed in the framework of the project. These predictive modelling analyses will be performed with process mining in order to make the best decisions at the right moment in terms of early palliative care provision.

What are the challenges you could be facing?

The challenge we are facing is the approach to process mining and all its characteristics, benefits and possibilities to clinicians for the specific problem of palliative care. Process mining is the analysis and extraction of information on the processes. In the context of this project, this means the processes that each patient's disease follows, such as the evolution of the disease, its different phases and the different treatments. The main difference with other data analyses, like big data, is that time is taken into account, that is, the evolution that the patient experiences over time.

How does your work contribute to the overall objectives of the project?

The outcome of our work will provide all the partners in charge of the pilot with a tool that facilitates the access to a general idea of the status of the patients and the possible status changes that each patient can experience due to their condition. Our work also contributes to one of the objectives, namely Transference and Scaling-up. It will enable a critical and comprehensive comparison between the different actions and specific interventions in the field of PC and their integration into European health systems. It will also provide a meaningful vision of the project for different actors, such as patient, informal carers, relatives, clinicians, hospital managers, policy makers and social workers.

How do you think the project will improve the quality of life of older people with complex chronic conditions?

From our point of view, the project aims to know the best time to start treating people with complex chronic conditions with palliative care. The first time they know that they are going to start being treated with palliative care is usually painful and most people do not receive it well, but if they start with these treatments in time they are able to extend life in an acceptable state of quality. Finding that optimal point to start with this type of treatment is where the project will improve the quality of life of older people.